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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/696,462	10/25/2000	Marlon B. Roa-Diaz	100.134US01	4031	
7590 05/06/2004			EXAMINER		
Fogg, Slifer & Polglaze, P.A. P.O. Box 581009			ELALLAM, AHMED		
	IN 55458-1009	458-1009		PAPER NUMBER	
-			2662	2	
			DATE MAILED: 05/06/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)			
•		09/696,	09/696,462 ROA-DIAZ, MARL				
	Office Action Summary	Examin	er	Art Unit			
		AHMED	ELALLAM	2662			
	The MAILING DATE of this commu	nication appears on t	he cover sheet with the	correspondence address			
Period fo			TO EVOIDE A MONT	1/0) 5504			
THE - Exte after - If the - If NC - Failu Any	MAILING DATE OF THIS COMMUN ensions of time may be available under the provision of SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty of period for reply is specified above, the maximum is ure to reply within the set or extended period for reply reply received by the Office later than three months are patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In no enterprise in the state of the	event, however, may a reply be tatutory minimum of thirty (30) o will expire SIX (6) MONTHS fro pplication to become ABANDO	timely filed lays will be considered timely, on the mailing date of this communication. NED (35 U.S.C. § 133).			
Status							
1)🛛	Responsive to communication(s) fi	led on 25 October 20	000				
	This action is FINAL . 2b)⊠ This action is non-final.						
3)		nce this application is in condition for allowance except for formal matters, prosecution as to the merits is					
- /	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	Claim(s) 1-39 is/are pending in the	application					
•	4a) Of the above claim(s) is/		consideration				
	Claim(s) <u>1-13,20-34,38 and 39</u> is/a						
	Claim(s) <u>14-19 and 35-37</u> is/are re						
·	Claim(s) is/are objected to.						
· —	Claim(s) are subject to restr	iction and/or election	requirement.				
Applicati	ion Papers						
9)	The specification is objected to by the	he Examiner.					
·	The drawing(s) filed on 25 October		cepted or b) 🛛 object	ed to by the Examiner.			
,	Applicant may not request that any obj			<u>•</u>			
	Replacement drawing sheet(s) including	J.,	•	` '			
	The oath or declaration is objected	- ·	-,,	•			
11)							
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Priority ι	under 35 U.S.C. § 119		ndor 35 11 5 C 5 4404				
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DETAILED ACTION

Claim Objections

1. Claim 18 is objected to because of the following informalities:

Claim 18 depends from itself. It is assumed hereinafter that it depends from claim

17. Appropriate correction is required.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "error cell generator" must be shown or the feature(s) canceled from claims 4 and 10. No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 14-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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In claim 14, it is not clear what is meant by the phrase "when a virtual connection changes to at least one selected condition, switching to the protection route for that virtual connection". More specifically, the meaning of the change to a selected condition is not clear. It is not clear what the condition consist of and what other conditions among which the selection took place? Similarly, the phrase "the virtual connection changes to at least one other condition, staying with the other route". The meaning of the "at least one other condition" is vague. Also when the "other condition" limitation is taken in conjunction with the "selected condition" a doubt is cast to what the "conditions" consist of?

In claim 17, in addition to the above rejection with reference to base claim 14, it is not clear what is meant by "selecting the at least one selected condition". More specifically, the "at least one selected condition" has the meaning of a selection that had already taken place; therefore having another selection of already selected condition is confusing.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 14-16, 18,19 and 35-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Uphadya et al. (US 5,949,755).

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Regarding claim 14, as understood, with reference to figure 2 and 4, Uphadya discloses, a working ring 110, a protection ring 120 for ATM cells transport, and a plurality of nodes A through D, each node is capable of detecting a loss of header error check synchronization (claimed tracking a status of first and second routes for each virtual connection in the ring network) and generating a protection payload data unit. which is egresses to the plurality of nodes and the protection PDU notifies other nodes. Uphadya also discloses that if a failure occurs at the working ring, the network controller directs the switch to egress the ATM cells to the protection ring as shown in Fig. 7, see column 7, lines 9-56. (Claimed when a virtual connection changes to at least one selected condition, switching to the protection route for that virtual connection). Further Uphadya discloses if HEC SYNC is restored, the CPU 200 directs the data path multiplexer to switch the VCs so that the node receives ATM cells from the working ring. See column 6,lines 60-67 and column 7, lines 1-18. (Claimed when the virtual connection changes to at least one other condition, staying with the working route).

Regarding claim 15, Uphadya discloses, in Fig. 6 and 9, identifying a set of virtual connections by a network element that detected the error to determine a set of virtual connections that are affected by the detected error; and tracking a state of the first and second routes for each virtual connection. See column 5, lines 34-56; and column 8, lines 49-51. (Claimed monitoring cells injected in a virtual connection due to at least one of a signal failure, and a signal degradation).

Regarding claim 16, with reference to figure 11, Uphadya shows a fiber cut that is monitored for protection switching of virtual connections. See column 7, lines 19-29.

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Regarding claim 18, with reference to figure 11, Uphadya shows a fiber cut that is monitored for protection switching of virtual connections. See column 7, lines 19-29. (Claimed selecting one of signal degradation, signal loss, and ring fault)

Regarding claim 19, with reference to figure 2 and 4, Uphadya discloses, a working ring 110, a protection ring 120 for ATM cells transport, and a plurality of nodes A through D, each node repeatedly performs header error check synchronization (HEC SYNC) to determine whether there has been a loss of HEC SYNC (claimed selecting one condition to trigger protection switching), and that each node is capable of detecting a loss of header error check synchronization (claimed tracking a status of first and second routes for each virtual connection in the ring network) and generating a protection payload data unit. which is egresses to the plurality of nodes and the protection PDU notifies other nodes, Uphadya also discloses that if a failure occurs at the working ring, the network controller directs the switch to egress the ATM cells to the protection ring as shown in Fig. 7, see column 7, lines 9-56. (Claimed when a virtual connection changes to at least one selected condition, switching to the protection route for that virtual connection). Further Uphadya discloses if HEC SYNC is restored, the CPU 200 directs the data path multiplexer to switch the VCs so that the node receives ATM cells from the working ring. See column 6, lines 60-67 and column 7, lines 1-18. (Claimed when the virtual connection changes to at least one other condition, staying with the working route).

Regarding claim 35, with reference to figure 2 and 4, Uphadya discloses, a working ring 110, a protection ring 120 for ATM cells transport, and a plurality of nodes

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A through D, each node is capable of detecting a loss of header error check synchronization (claimed tracking a condition of first and second routes for each virtual connection in the ring network) and generating a protection payload data unit. which is egresses to the plurality of nodes and the protection PDU notifies other nodes.

Uphadya also discloses that if a failure occurs at the working ring, the network controller directs the switch to egress the ATM cells to the protection ring as shown in Fig. 7, see column 7, lines 9-56. (Claimed when a condition of a virtual connection changes to at least one selected condition, switching to the protection route for that virtual connection). Further Uphadya discloses if HEC SYNC is restored, the CPU 200 directs the data path multiplexer to switch the VCs so that the node receives ATM cells from the working ring. See column 6, lines 60-67 and column 7, lines 1-18. (Claimed when the condition of the working route returns to an acceptable level, returning to the working route for the virtual connection).

Regarding claim 36, Uphadya discloses, with reference to Fig. 6 and 9, a identifying a set of virtual connections comprises looking in a table of a network element that detected the error to determine a set of virtual connections that are affected by the detected error; and tracking a state of the first and second routes for each virtual connection. See column 5, lines 34-56; column 8, lines 49-51. (Claimed tracking the condition of the first and second route comprises monitoring the virtual connections for error cells).

Regarding claim 37, with reference to figure 11, Uphadya shows a fiber cut that is monitored for protection switching of virtual connections. See column 7, lines 19-29.

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Allowable Subject Matter

5. Claims 1-13, 20-34 and 38-39 are allowed.

Claim 17 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Kaman et al, US (6,011,780); Kuroyanagi et al, US (6,072,610); Takahashi et al, US (6,219,336); Lowe et al, US (6,233,221); Sato, US (6,477,288); Shiragaki et al, US (6,657,952); Potter et al, US (6,674,755).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AHMED ELALLAM whose telephone number is (703) 308-6069. The examiner can normally be reached on 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kizou Hassan can be reached on (703) 305-4744. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AHMED ELALLAM Examiner Art Unit 2662 April 28, 2004

HASSANIKIZOU

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600